



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

646.3716
Job Sheet 170471



Part No: 646.3716

Job Qty: 12 ea

Part Name: Gauge Bracket



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 1/16/18

Job Tracking No:

Due Date: 2/8/18

Created By: Linda Lacelle

Type: SOLD

Description:

Note: DWG REV A SHEET 7 IPP REV:A 12.10.22 NEW ISSUE DD VERF:JLM

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	12 Ea		2/7/18	0.00	0.00	Start Up Waterjet		SC 12/02/05
110	Waterjet	12 pcs		2/7/18	0.00	0.38	Waterjet1		SC 12/02/05
120	QC	12 pcs		2/7/18	0.00	0.00	QC2 Waterjet-1		SC 12/02/05
130	QC	12 pcs		2/7/18	0.00	0.00	QC8-1		38
140	Brake NC	12 pcs		2/8/18	0.04	0.34	Brake NC 2		9-89 DAS 38
150	QC	12 pcs		2/8/18	0.00	0.00	QC5		38
160	Outsource	12 pcs		2/8/18			ATG001-VC		DAS 9-89
170	QC	12 pcs		2/8/18	0.00	0.00	QC5		11 APR 17 2018
180	Packaging	12 pcs		2/8/18	0.00	0.00	Packaging3-1		APR 16 2018
190	QC21-SA	12 Ea		2/8/18	0.00	0.00	QC21		APR 18 2018

Part Op 110 - 1-Cut as per Dwg ***GRAIN ALONG 2.41***
Descriptions: 140 - USE 5/32" RAD DIE
160 - Issue P/O to ATG : PO 039310
180 - ***IDENTIFY AS PER APICAL MPP-120 BY STAMPING THE P# AND REV***

Job Allocations

Operation	Component Part	Required	Inventory	Allocated	Std Qty
90-Start up Operation	M6061T6S.080	0	254	0	0

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval _____																																																	
Description Work Order Deviation		Disposition		Completed By _____																																																	
Job No: 170471 Operation 02/05/18 Start up Operation Change No: _____ Operation: _____ Revision: _____ Original Serial #: S039275 PART NO: 646.3716 Gauge Bracket S039275 DART AEROSPACE DART Aerospace Ltd. 1270 Alton Road Hawkesbury, ON K6A 1K7 CANADA TEL: 1 613 632-5206 Email: sale@dartaero.com www.dartaero.com		and / Supervisor Approval Verification C / QA Coordinator Approval																																																			
		Root Cause <table border="0" style="width:100%;"> <tr><td>Environment</td><td>☐</td><td>No Re-verification</td><td>☐</td></tr> <tr><td>Design</td><td>☐</td><td>Operator</td><td>☐</td></tr> <tr><td>Doc/Data</td><td>☐</td><td>Offset/Setup</td><td>☐</td></tr> <tr><td>Equip/Tooling</td><td>☐</td><td>Supplier</td><td>☐</td></tr> <tr><td>Handling/Pre</td><td>☐</td><td>Training</td><td>☐</td></tr> <tr><td>Material</td><td>☐</td><td>Use for Testing</td><td>☐</td></tr> <tr><td>Internal Transport</td><td>☐</td><td>Poor Information</td><td>☐</td></tr> <tr><td>Tribal Knowledge</td><td>☐</td><td>Rushing</td><td>☐</td></tr> <tr><td>LOA</td><td>☐</td><td>Product Improvement</td><td>☐</td></tr> <tr><td>Substation</td><td>☐</td><td>Process Improvement</td><td>☐</td></tr> <tr><td>Past Expiry Date</td><td>☐</td><td>Manufacturing Process</td><td>☐</td></tr> <tr><td>Misidentified</td><td>☐</td><td>Past Due</td><td>☐</td></tr> </table> OTHER : _____				Environment	☐	No Re-verification	☐	Design	☐	Operator	☐	Doc/Data	☐	Offset/Setup	☐	Equip/Tooling	☐	Supplier	☐	Handling/Pre	☐	Training	☐	Material	☐	Use for Testing	☐	Internal Transport	☐	Poor Information	☐	Tribal Knowledge	☐	Rushing	☐	LOA	☐	Product Improvement	☐	Substation	☐	Process Improvement	☐	Past Expiry Date	☐	Manufacturing Process	☐	Misidentified	☐	Past Due	☐
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Cracks Crimp/Kink/Ripple/Wave Cuffs Crushing Heat Treat Wave/Twist in Tube Marks/Chatter Corrosion Countersink Cut Too Short Instructions Incomplete/Unclear Drill Holes Fit/Function Misaligned/off center																																																					
Positioned Wrong Outside Dimensions Over/Under tolerance Part Incorrect Part Lost/Missing Part Moved Drawing Finish Misread Turning Sequence																																																					

Part Specifications					
Spec No	Description	Target/Tolerance	Limits	Type	Special Comments
1	Gauge Bracket	0.500Inches + 0.006 - 0.001	0.506 0.499	0,500	
2	Gauge Bracket	0.150Inches + 0.005 - 0.001	0.155 0.149	0,150	
3	Gauge Bracket	0.500Inches ± 0.005	0.505 0.495	0,500	
4	Gauge Bracket	1.160Inches ± 0.005	1.165 1.155	1,163	
5	Gauge Bracket	2.000Inches ± 0.005	2.005 1.995	2,000	
6	Gauge Bracket	1.250Inches ± 0.005	1.255 1.245	1,250	
7	Gauge Bracket	0.380Inches ± 0.005	0.385 0.375	0,380	
8	Gauge Bracket	0.500Inches ± 0.005	0.505 0.495	0,500	
9	Gauge Bracket	1.510Inches ± 0.005	1.515 1.505	1,513	
10	Gauge Bracket	0.080Inches ± 0.005	0.085 0.075	0,080	

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DQA: _____ Date: _____



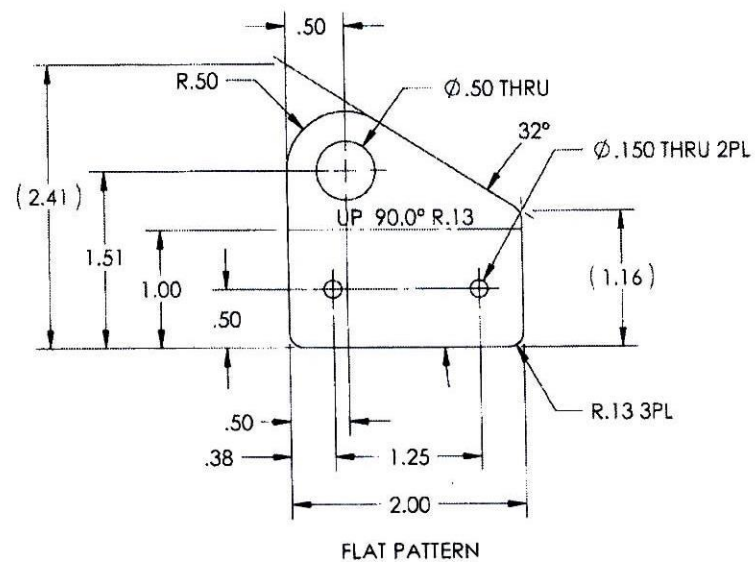
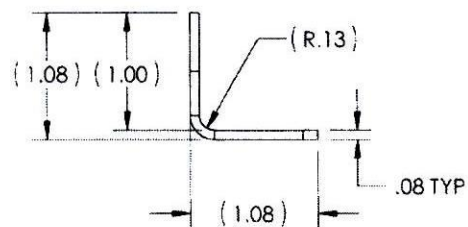
WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			Completed By
					Lead hand / Supervisor Approval Verification
					QC / QA Coordinator Approval
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : ☐	

REVLOG			
REV	DESCRIPTION	DATE	APPROVED



NEXT ASSY (S) ORDER NO. DATE ORDER NO. DATE P. BRAND P. NUMBER ORDER NO. DATE ORDER NO. DATE ORDER NO. DATE	APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760) 724-5300 SHEETMETAL PRE CUT CODE CDD NO. 646.3700 B 1 ORDER NO. 646.3700 SCALE: 1/8"=1'-0" SHEET 1 OF 6
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Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO039310**

Supplier: ATG001-VC
A.T.G. Industries Inc
731 INDUSTRIELLE ROAD
ROCKLAND
ON
K4K 1T2 Canada
Phone: 613-446-4544
Fax: 613-446-4556

Attention: Lalande, Marc-Andre

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO039310
PO Date: 3/14/18
Due Date: 4/18/18
Purchase Order
Revision:
Revision Date:
Ship-To Contact: Tsimiklis, ChrisoulaPhone:

Via: Ground
Pymt Terms: Net 30
Freight Terms:
Special Comments:

Items

Line Item	Job	Part	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	174097	646.3712	Clip Issue P/O to ATG : _____ Hard Anodize, Color Black and Prime as Per Dwg 646.3712 Rev. A	Firmed	4/18/18	6 pcs	0 pcs	6 pcs	\$7.55/pcs	\$45.30
2	174094	646.3715	Strut Doubler Issue P/O to ATG : _____ Hard Anodize, Color Black and Prime as per Dwg 646.3700	Firmed	4/18/18	12 pcs	0 pcs	12 pcs	\$7.70/pcs	\$92.40
3	170471	646.3716	Gauge Bracket Issue P/O to ATG : _____	Firmed	4/18/18	12 pcs	0 pcs	12 pcs	\$7.60/pcs	\$91.20
4	174092	646.3717	Doubler Issue P/O _____ ATG, black anodize and prime as per dwg 646.3717 Rev. A	Firmed	4/18/18	6 pcs	0 pcs	6 pcs	\$7.70/pcs	\$46.20
5	174091	646.3718	Custom Washer Issue P/O _____ ATG, black anodize and prime as per dwg 646.3718 Rev. A	Firmed	4/18/18	12 pcs	0 pcs	12 pcs	\$5.40/pcs	\$64.80
6	174090	646.3719	Doubler Issue P/O _____ ATG, balck anodize and prime as per dwg 646.3719 Rev. A	Firmed	4/18/18	12 pcs	0 pcs	12 pcs	\$7.70/pcs	\$92.40
7	173241	647.1610	Wiper Deflector Fwd Issue P/O to ATG : _____ 1- Hard Anodize, Color Black and Prime as per Dwg, 647.1600	Firmed	4/18/18	8 pcs	0 pcs	8 pcs	\$12.15/pcs	\$97.20
8	168290	647.1710	Plate Issue P/O to ATG : _____	Firmed	4/18/18	5 pcs	0 pcs	5 pcs	\$31.70/pcs	\$158.50
9		647.1711	Plate Issue P/O to ATG : _____	Firmed	4/18/18	5 pcs	0 pcs	5 pcs	\$31.70/pcs	\$158.50

DAS
11
9-89

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A.T.G. Industries Inc.
731 Industrielle Street
Rockland, ON K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

Pack List

Number: 914949

Date: 16-Apr-18

To

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ship To

Diane Baker
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Terms		Ship Via	
		OUR TRUCK	
Quantity	Description		
	Please reference this document's Pack List number on all correspondences regarding this shipment. If you have any questions, please contact us.		
9 ea	Part: 647.1714 Plate Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0006-.0009" (.6 - .9 mils) per drawing. Job: 22765 PO: PO039310 Line: 10 Rev: E		
6 ea	Part: 647.1715 Plate Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0006-.0009" (.6 - .9 mils) per drawing. Job: 22766 PO: PO039310 Line: 11 Rev: E		
12 ea	Part: 646.3716 Gauge Bracket Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0006-.0009" (.6 - .9 mils) per drawing. Job: 22742 PO: PO039310 Line: 3 Rev: A		
6 ea	Part: 646.3717 Doubler Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0006-.0009" (.6 - .9 mils) per drawing. Job: 22743 PO: PO039310 Line: 4 Rev: A		
12 ea	Part: 646.3718 Custom Washer Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4 mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0006-.0009" (.6 - .9 mils) per drawing. Job: 22743 PO: PO039310 Line: 4 Rev: A		
Made in Canada.			

Made in Canada.



A.T.G. Industries Inc.
731 Industrielle Street
Rockland, ON K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

Pack List

Number: 914949

Date: 16-Apr-18

To

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ship To

Diane Baker
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Terms		Ship Via	
		OUR TRUCK	
Quantity	Description		
	- .9 mils) per drawing. Job: 22761	PO: PO039310	Line: 5
12 ea	Part: 646.3719 Doubler Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0006-.0009" (.6 - .9 mils) per drawing. Job: 22762	Rev: A PO: PO039310	Line: 6
CERTIFICATE OF CONFORMANCE A.T.G Industries Inc. certifies that all items in this shipment conform to the requirements. Date: <u>16/04/2018</u> Certified Signature: <u>[Signature]</u> Receiver Signature: _____ A.T.G Industries Inc. is AS9100 Registered and Nadcap Chemical Processing Accredited. Note: This Packing Slip may contain parts that have been PLATED. Items that are plated may be subject to natural tarnishing and it is suggested that they be inspected within 24 hours of receipt. Made in Canada.			